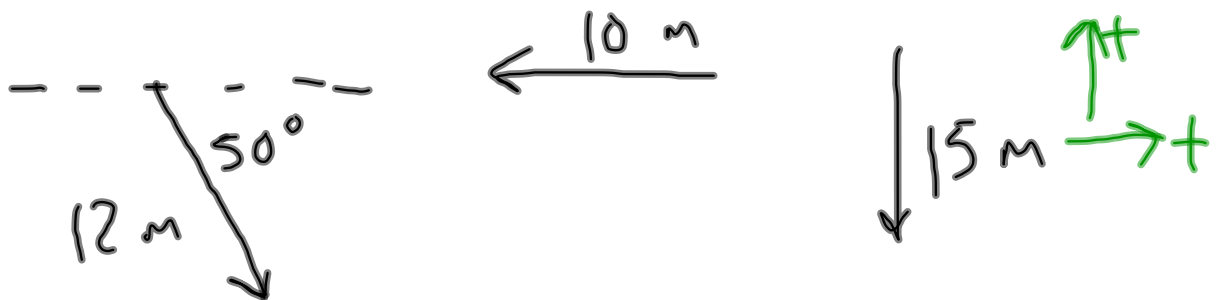


HW: p. 47: 3, 4, 6

Vector Quiz Friday



$$a_x = (12 \text{ m}) \cos(50^\circ)$$

$$a_y = -(12 \text{ m}) \sin(50^\circ)$$

$$b_x = -10 \text{ m}$$

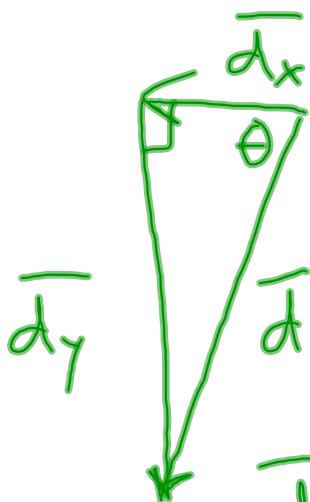
$$b_y = 0 \text{ m}$$

$$+c_x = 0 \text{ m}$$

$$+c_y = -15 \text{ m}$$

$$d_x = -2.29 \text{ m}$$

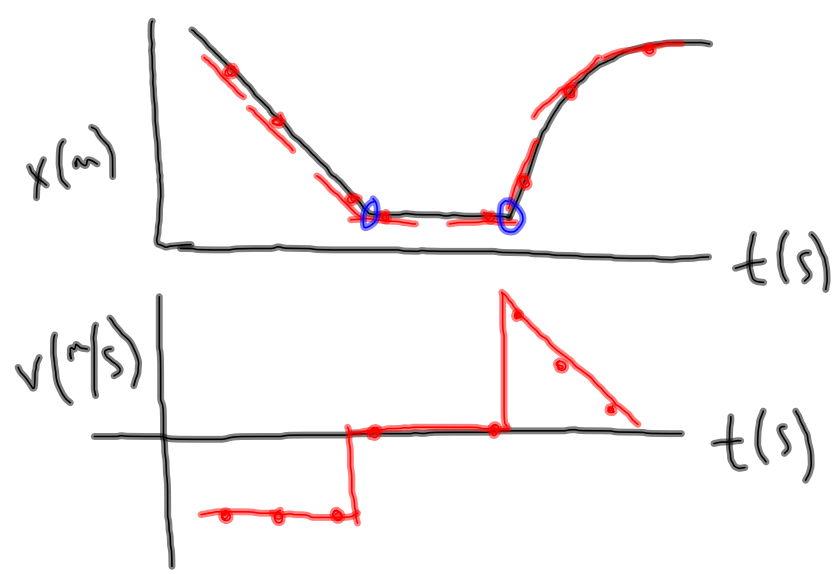
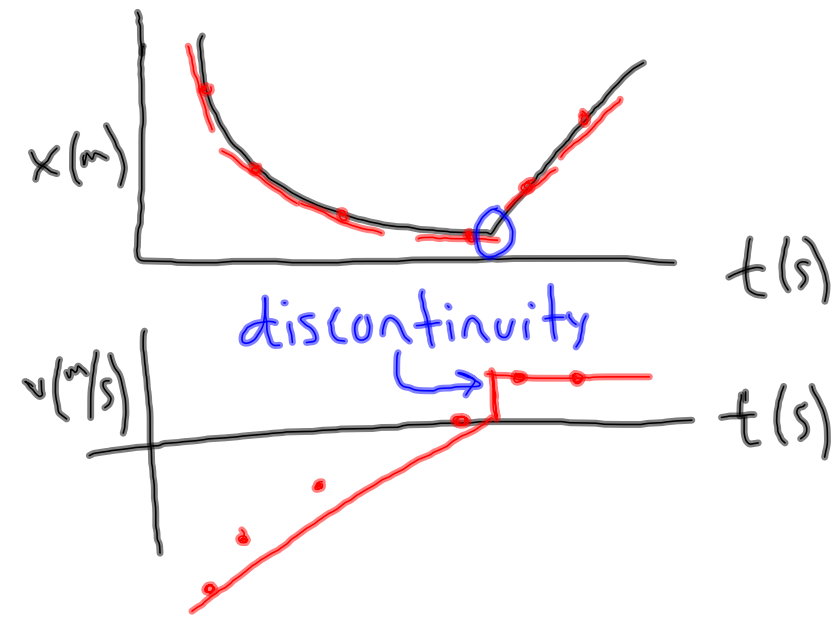
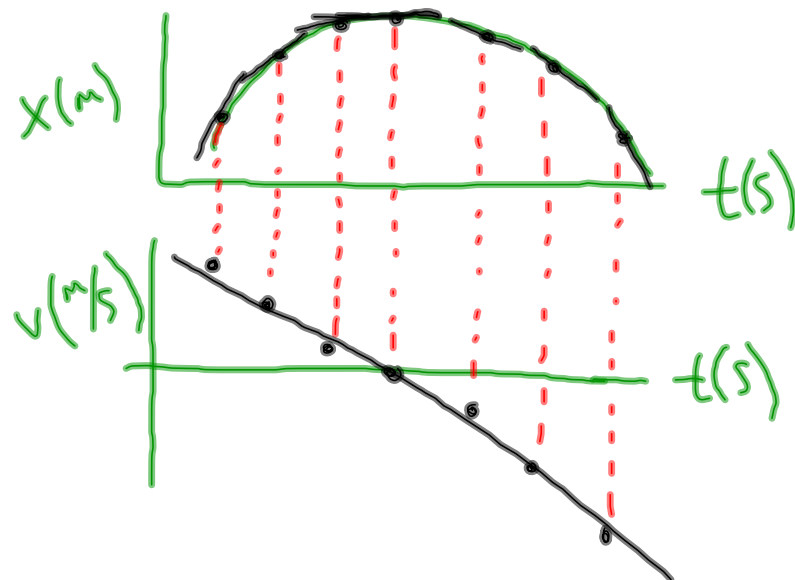
$$d_y = -24.2 \text{ m}$$



$$d = 24.3 \text{ m}$$

$$\theta = 84.6^\circ$$

$$\overline{d} = 24.3 \text{ m @ } 84.6^\circ \text{ S of W}$$



Acceleration:

- average: $a = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$

units: m/s^2

- instantaneous \rightarrow slope of tangent line on velocity/time graph

